CLAIMS

What is claimed is:

1. An ultrasound coating for enhancing ultrasonic visualization of a medical device, comprising

an adhesion layer adhering to a surface of the medical device; and a contrast agent layer overlaying the adhesion layer, the contrast agent layer comprising ultrasound microbubbles.

- 2. The ultrasound coating of claim 1, wherein the microbubbles vibrate in response to an incident ultrasound wave to generate an harmonic vibration.
- 3. The ultrasound coating of claim 1, wherein the microbubbles vibrate in response to an incident ultrasound wave to generate a non-harmonic vibration.
- 4. The ultrasound coating of claim 1, wherein the microbubbles vibrate in response to an incident ultrasound wave to generate both harmonic and non-harmonic vibrations.
- 5. The ultrasound coating of claim 1, wherein the microbubbles vibrate in response to an incident ultrasound wave to generate a sub-harmonic vibration.
- 6. The ultrasound coating of claim 1, wherein the adhesion layer comprises a pressure sensitive adhesive.
 - 7. The ultrasound coating of claim 1, wherein the adhesion layer comprises silicone.
 - 8. The ultrasound coating of claim 1, wherein the adhesion layer comprises polymer.
- 9. The ultrasound coating of claim 1, wherein the adhesion layer comprises hydrogel.
- 10. The ultrasound coating of claim 1, wherein the adhesion layer comprises DOPA (dihydroxyphenylalanine).
- 11. The ultrasound coating of claim 1, further comprising a third layer overlaying the contrast agent layer.

- 12. The ultrasound coating of claim 11, wherein the third layer comprises polymer or hydrogel.
- 13. The ultrasound coating of claim 12, wherein the third layer comprises therapeutic agents.
- 14. An ultrasound coating for enhancing ultrasonic visualization of a medical device, comprising:
 - an adhesion layer adhering to the surface of the medical device; and ultrasound microbubbles in the adhesion layer.
- 15. The ultrasound coating of claim 14, wherein the microbubbles vibrate in response to an incident ultrasound wave to generate a harmonic vibration.
- 16. The ultrasound coating of claim 14, wherein the microbubbles vibrate in response to an incident ultrasound wave to generate a non-harmonic vibration.
- 17. The ultrasound coating of claim 14, wherein the microbubbles vibrate in response to an incident ultrasound wave to generate both harmonic and non-harmonic vibrations.
- 18. The ultrasound coating of claim 14, wherein the microbubbles vibrate in response to an incident ultrasound wave to generate a sub-harmonic vibration.
- 19. The ultrasound coating of claim 14, wherein the adhesion layer comprises a pressure sensitive adhesive.
- 20. The ultrasound coating of claim 14, wherein the adhesion layer comprises silicone.
- 21. The ultrasound coating of claim 14, wherein the adhesion layer comprises polymer.
- 22. The ultrasound coating of claim 14, wherein the adhesion layer comprises hydrogel.

- 23. The ultrasound coating of claim 14, wherein the adhesion layer comprises DOPA (dihydroxyphenylalanine).
- 24. The ultrasound coating of claim 14, further comprising therapeutic agents in the adhesion layer.
- 25. A medical device adapted to be inserted into a patient's body, the medical device having at least a portion coated by the ultrasound coating of claim 1.
- 26. A medical device adapted to be inserted into a patient's body, the medical device having at least a portion coated by the ultrasound coating of claim 13.
 - 27. The medical device of claim 25 wherein the medical device is a stent.
 - 28. The medical device of claim 25 wherein the medical device is a catheter.
 - 29. The medical device of claim 25 wherein the medical device is a prosthesis.
 - 30. The medical device of claim 26 wherein the medical device is a stent.
 - 31. The medical device of claim 26 wherein the medical device is a catheter.
 - 32. The medical device of claim 26 wherein the medical device is a prosthesis.